

ABSTRACT

5 Process for the preparation of an insertion compound of  
an alkali metal in which the following successive  
stages are carried out:

- 10 a) an organic complex of a transition metal or of a  
mixture of transition metals M in an oxidation  
state of greater than 2 is brought into contact  
with an alkali metal A in the ionic form and with  
an entity of formula  $H_b(XO_4)$ , where X is chosen  
from Si, S, Al, P, Ge, As or Mo and b has a value  
from 0 to 5, in a liquid medium in a closed  
chamber; the chamber is brought to a temperature T  
15 which makes possible the decomposition of the  
organic complex in the the said liquid medium;  
the temperature and the pressure in the chamber are  
brought back to ambient temperature and atmospheric  
pressure and the insertion compound for an alkali metal  
20 of formula  $AMXO_4$ , in which M is in the +2 oxidation  
state, is recovered.